

## Drinking Water and Radiation Laboratory Branch

850 Marina Bay Parkway, Richmond, CA 94804  
Phone: (510) 620-2911 Fax: (510) 620-2940



EDMUND G. BROWN JR.  
Governor

### FINAL Analysis Results Report for Task ID. N11-0210

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 06/03/2011

#### Requestor

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 Phone: 916-440-7940

#### Site and Sample Information

Collector's Name: Diablo Canyon NPP

Date/Time Collected: 02/11/2011 11:00 Date/Time Received: 02/22/2011 11:47

Site Name: Diablo Canyon / Air

Source Name: DCNPP / 1st Qtr 2011

R Number: R91559

Sample Type: Sediment

<u>Sample ID</u>	<u>Sampling Point</u>	<u>Method</u>	<u>Parameter</u>	<u>Result ± CE</u>	<u>MDA<sub>95</sub></u>	<u>Units</u>
N11-0210-001	Sediment	HASL Ga-01-R	Dry Wt./Wet Wt.	0.708 ±		
N11-0210-001	Sediment	HASL Ga-01-R	K-40	9.28 ± 0.230	0.362	pCi/g dry wt

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD<sub>95</sub> divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD<sub>95</sub> is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

**Sanitation and Radiation Laboratories Branch**  
850 Marina Bay Parkway, G164  
Richmond, CA 94804  
510-620-2911

2/22/11

Date &amp; Time Sampled

NH-0210

Serial Number

R 91559

Name:  
Dept./Branch:  
Address:

**Telephone No.:**

System Name / Facility: DCPD-1<sup>st</sup> Qrt. 2011  
Sampling Point (s): DCM

**System No.:**

Name:  
Dept./Branch:  
Address:

**Telephone No.:**

☐ DWFOB ( )    ☐ RHB    ☐ RWQCB ( )    ☐ DTSC  
☐ DWTPB    ☐ FDB    ☐ DWR    ☐ CDFG  
☐ EMB    ☐ Other (Specify) \_\_\_\_\_

☐ Drinking Water      ☐ Groundwater      ☐ Surface Water      ☐ Wastewater  
☐ Raw      ☐ Water Treatment Plant (WTP)      ☐ Distribution System      ☐ Point of Use (POU)  
☐ Treated (circle one): Chlorinated / Chloraminated / Chlorine Dioxide / Ozonated / Peroxizone / Fluoridated / Coagulated / pH Adjusted

Date/Time

### Finishing:

**Starting:**

Net ( $M^3$ )☐ Air Charcoal Cartridge

☐ Seawater

 **Milk**

 **Wipes**

**Radon Canister**

☐ **Sludge (Semi-solid Samples)**

 Soil/Sediment

☐ Biota (Type): \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Field Treatment: Preservatives added: \_\_\_\_\_ Iced/Frozen: \_\_\_\_\_ Other: \_\_\_\_\_  
☐ Field Measurement: \_\_\_\_\_ mR/hr ☐ Radionuclide(s), if known: \_\_\_\_\_  
☐ Rush/Priority (should be prearranged and have supervisory approval)

<input type="checkbox"/> Gross Alpha	<input type="checkbox"/> Gross Beta	<input checked="" type="checkbox"/> Gamma Scan
<input type="checkbox"/> Total Uranium	<input type="checkbox"/> Total Beta (LSC)	<input type="checkbox"/> NORM (Gamma)
<input type="checkbox"/> Total Radium	<input type="checkbox"/> Tritium ( $^3\text{H}$ )	<input type="checkbox"/> Isotopic Americium / Curium
<input type="checkbox"/> Radium-226	<input type="checkbox"/> Carbon-14	<input type="checkbox"/> Isotopic Plutonium
<input type="checkbox"/> Radium-228	<input type="checkbox"/> Iodine-131	<input type="checkbox"/> Isotopic Thorium
<input type="checkbox"/> Radon-222	<input type="checkbox"/> Strontium-89, 90	<input type="checkbox"/> Isotopic Uranium
<input type="checkbox"/> Other (Specify): _____	<input type="checkbox"/> Nickel-63	<input type="checkbox"/> Iron-55

1.	Date	Name (Print)	Signature	Date
2.	Time Custody Received	Organization		Time Custody Released
	Date	Name (Print)		Date
	Time Custody Received	Organization	Signature	Time Custody Released
3.	Date 2/22/11	Name (Print) A. TAN		
	13:30	SRIB-N	Signature Angela Tan	Date
	Time Custody Received	Organization		Time Custody Released

**A. Condition at Time of Receipt:**

☐ **Acceptable**☐ Holding Time Exceeded

☐ **Broken Container**

☐ Sample Not Cooled

## Leaked in Transit

- ☐ Leaked in Transit
- ☐ Insufficient Sample

☐ Improper Container

**B. Preservatives/Carriers:**

☐ Added While Sampling☐ Added in Laboratory

☐ Not Added

☐ Not Applicable